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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,941	08/21/2003	J. Patrick Thompson	MSFT-1749/302725.01	1302
41505	7590 08/04/2006	EXAMINER		INER
	CK WASHBURN LLP (1	LY, CHEYNE D		
	RTY PLACE - 46TH FLOO PHIA, PA 19103	R	ART UNIT PAPER NUMBER	
			2168	
		DATE MAILED: 08/04/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/646,941	THOMPSON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Cheyne D. Ly	2168	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) ■ Responsive to communication(s) filed on <u>22 M</u> 2a) ■ This action is FINAL . 2b) ■ This 3) ■ Since this application is in condition for allowed closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ⊠ Claim(s) 1-84 is/are pending in the application. 4a) Of the above claim(s) is/are withdray. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-84 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ate	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5/22/06</u> .	5) Notice of Informal P 6) Other:	Patent Application (PTO-152)	

Art Unit: 2168

DETAILED ACTION

Applicants' arguments filed May 22, 2006 have been fully considered but they are not
deemed to be persuasive. Rejections and/or objections not reiterated from previous office
actions are hereby withdrawn. The following rejections and/or objections are either
reiterated or newly applied. They constitute the complete set presently being applied to
the instant application.

- 2. The amendments to the specification and the new abstract have been entered.
- 3. The IDS, filed May 22, 2006, has been considered.
- 4. Claims 1-84 are examined on the merits.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164

Art Unit: 2168

USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

- 6. A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.
- 7. Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).
- 8. The instant rejection has been necessitated by claim amendments.
- 9. Claims 1, 51, and 68 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 14, and 27 of copending Application No. 10/646,940. Although the conflicting claims are not identical, they are not patentably distinct from each other because the invention recited by claims 1, 14, and 27 of the copending application is an obvious variant of the invention claimed by the instant application. Even though claims 1, 51, and 68 of the instant application do not specify that "a base schema." One of ordinary skill in the art would have been motivated to examine the specification (paragraph [0328] of the published application) of the instant application to conclude that the hardware/software interface of the instant application comprises a base schema defining the Item. "The specification can always be used as a dictionary to learn the meaning of a term in the patent claim.

Art Unit: 2168

Further, those portions of the specification which provide support for the patent claims may also be examined and considered when addressing the issue of whether a claim in the application defines an obvious variation of an invention claimed in the patent."

(MPEP § 804 (II) (B) (1))

10. This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

CLAIM REJECTIONS - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 12. Claims 1-18, 33-59, 62-76, and 79-84 are rejected under 35 U.S.C. 102(b) as being anticipated by D'Andrea & Janus (1996) (D'Andrea hereafter).
- 13. This rejection is maintained with respect to claims 1-18, 33-59, 62-76, and 79-84, as recited in the previous office action mailed February 28, 2006.

CLAIM INTERPRETATIONS

14. It is noted that D'Andrea discloses "four fundamental object extensions... Taken together with extension #1, class composition, the data model is a Directed Acyclic Graph (DAG)" (page 71, last paragraph). The disclosure anticipates the pluralities of relationships of the claimed invention as discussed below. Further, the citation portion of D'Andrea discloses 4 types of objects (Items) as defined by the instant specification

Application/Control Number: 10/646,941

Art Unit: 2168

(page 32). The objects (Items) anticipate the limitations of first and second Items required by the claims as discussed below.

Page 5

15. It is note that D'Andrea does not explicitly disclose the limitation of "boundaries." The instant specification describes the "boundaries" as the Item being represented by its properties (including complex property types, extensions, and so forth) (paragraph [0327]-[0330]). D'Andrea describes objects can be as simple as single binary bit, as complex as a aircraft carrier wherein objects are defined in terms of other objects (boundaries). Further, attributes may refer to other objects or may be of some atomic scalar base datatype such as a numeric, character string, etc. (list) (page 72, second paragraph). It is noted that the cited disclosure by D'Andrea (page 71, last paragraph, page 72, second paragraph) has been interpreted to anticipate the new limitation of "each of said Items having a boundary comprising an item type, applicable subtype information, complex type properties and extensions if any, and a list of the other Items owned by the Item" as defined by the instant application (paragraph [0327]-[0330]) of the published application).

BASIS FOR PRIOR ART

16. In regard to claim 1, D'Andrea discloses a computer-readable medium with computer-readable instructions for a hardware/software interface system for a computer system (pages 73-74, Balanced Client-Server Architecture section, and pages 75 and 76, 3rd paragraph), wherein said hardware/software interface system manipulates a plurality of discrete units of information (page 72, 2nd paragraph), said items interconnected by a plurality of Relationships managed by said hardware/software interface system (page 71,

Art Unit: 2168

last paragraph), each of said Items having a boundary comprising an item type, applicable subtype information, complex type properties and extensions if any, and a list of the other Items owned by the Item (page 71, last paragraph, page 72, second paragraph).

- 17. In regard to claim 2, a first Item has a relationship from itself to a second Item (page 71, last paragraph).
- 18. In regard to claim 3, the Relationship from said first Item to said second Item logically denotes in said hardware/software interface system that the said second Item is public and accessible to said first Item (page 72, 2nd paragraph, and page 73, lines 3-4). It is noted that the disclosure of an object-oriented data model comprising inheritance and encapsulation wherein shared attributes may be stored once in the class instance and shared amongst all instances of the class reasonably support the limitation of "second Item is public and accessible to said first Item."
- 19. In regard to claim 4, the first item is an Item Folder (page 71, last paragraph and page 71, last paragraph). It is noted the disclosure of "class" by D'Andrea has been interpreted as an Item Folder as described by the instant specification (page 37).
- 20. In regard to claim 5, the second Item is an Item Folder (page 71, last paragraph and page 71, last paragraph). It is noted that D'Andrea discloses "The datatype of a column can be a class" (page 71, last paragraph) and a plurality of datatypes (page 71, last paragraph). Therefore, the disclosure by D'Andrea of a plurality of different classes has been interpreted as the second Item is an Item Folder (class).

Art Unit: 2168

21. In regard to claim 6, the second Item is a Category (page 71, last paragraph). It is noted the disclosure of "collections" by D'Andrea has been interpreted as a Category as described by the instant specification (page 37).

- 22. In regard to claim 7, the second Item is an Item that is not an Item Folder or a Category (page 71, last paragraph). It is note the disclosure of "attribute" and "Methods" have interpreted as an Item that is not an Item Folder or a Category.
- 23. The citation above anticipates claims 8-18 and 33-46.
- 24. In regard to claim 47, each Item from among said Items has a relationship to at least one other Item (page 71, last paragraph).
- 25. In regard to claim 48, a subset of Items comprise Item Folders (page 72, 2nd paragraph, and page lines 6-7).
- 26. The citation above anticipates claims 49 and 50.
- 27. Further, the citation above anticipates the system and method recited by claims 51-59, 62-76, and 79-84.

RESPONSE TO ARGUMENTS

28. On pages 16-17, Applicant argues that "there is not teaching or suggestion of boundaries for the objects, as claimed" in D'Andrea. Applicant's argument is not persuasive because the cited disclosure by D'Andrea (page 71, last paragraph, page 72, second paragraph) has been interpreted to anticipate the new limitation of "each of said Items having a boundary comprising an item type, applicable subtype information, complex type properties and extensions if any, and a list of the other Items owned by the Item" as

defined by the instant application (paragraph [0327]-[0330]) of the published application).

Claim Rejections - 35 USC § 103

- 29. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 30. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 31. Claims 19-32, 60, 61, 77, and 78 are rejected under 35 U.S.C. 103(a) as being unpatentable over D'Andrea & Janus (1996) (D'Andrea hereafter) as applied to claims 1-18, 33-59, 62-76, and 79-84 above, and further in view of Barker (2000).
- 32. This rejection is maintained with respect to claims 19-32, 60, 61, 77, and 78, as recited in the previous office action mailed February 28, 2006.

Art Unit: 2168

33. D'Andrea describes the limitations to claims 1-18, 33-59, 62-76, and 79-84 as discussed above. However, D'Andrea does not describe the limitation of "Item does not have a Relationship to said first Item" and "wherein a lack of a Relationship from said second Item to said Item logically denotes in said hardware/software interface system that said

first Item is private an inaccessible to said second Item."

- 34. D'Andrea describes an improvement for the next generation DBMS that is fast and costeffective by taking advantage of the flexibility, productivity, and performance benefits of
 OO modeling (Abstract etc.). Barker describes software objects (page 1) and "what does
 it take to be a successful object modeler" (page 54). An artisan of ordinary skill in the art
 at the time of the instant invention would have been motivated by the improvement
 described by D'Andrea to improve the method of D'Andrea with the OO modeling
 technique described by Barker.
- 35. In regard to claim 19, Barker describes second Item does not have a Relationship to said first Item (page 94, Private visibility section).
- 36. In regard to claim 20, Barker describes a lack of a Relationship from said second Item to said first Item logically denotes in said hardware/software interface system that said first Item is private and inaccessible to said second Item (page 94, Private visibility section).
- 37. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to use the computer-readable medium, system and method as described by D'Andrea and Barker.

Art Unit: 2168

38. Further, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to use the computer-readable medium, system and method as described by D'Andrea and Barker as recited in claims 21-32, 60, 61, 77, and 78.

RESPONSE TO ARGUMENTS

39. On page 17, Applicant argues that "Barker does not disclose or suggest boundaries for the objects as claimed." Applicant's argument is not persuasive because D'Andrea describes the required boundaries as set forth above.

CONCLUSION

- 40. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

 41. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 42. Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are

Art Unit: 2168

available to answer your questions daily from 6 am to midnight (EST). The toll free number

is (866) 217-9197. When calling please have your application serial or patent number, the

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file folder(s) as well as general patent information available to the public.

43. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-

9199. The USPTO's official fax number is 571-272-8300.

44. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to C. Dune Ly, whose telephone number is (571) 272-0716. The

examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

45. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tim Vo, can be reached on (571) 272-3642.

C. Dune Ly

Patent Examiner

7/27/06

TIM VO

/ Lin G

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100